

(#5)

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 101531,965
Source: PCT
Date Processed by STIC: 4-27-05

ENTERED



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/531,965

DATE: 04/27/2005

TIME: 14:36:39

Input Set : A:\LeA 36 374.ST25.txt

Output Set: N:\CRF4\04272005\J531965.raw

3 <110> APPLICANT: Bayer AG, BHC
 4 Golz, Stefan
 5 Bruggemeier, Ulf
 6 Geerts, Andreas
 8 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with

Human

9 Phosphodiesterase 10A (PDE10A)
 11 <130> FILE REFERENCE: Le A 36 374
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/531,965
 C--> 13 <141> CURRENT FILING DATE: 2005-04-19
 13 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/011882
 14 <151> PRIOR FILING DATE: 2003-10-25
 16 <150> PRIOR APPLICATION NUMBER: EP02024996.7
 17 <151> PRIOR FILING DATE: 2002-11-08
 19 <160> NUMBER OF SEQ ID NOS: 5
 21 <170> SOFTWARE: PatentIn version 3.3
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 4576
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 28 <400> SEQUENCE: 1
 29 gaattccggg cggcgccggc ccaaactccgc ggcgtcccca gggcgccacg ttcgccctcg 60
 31 ccgcgcgcggc cgcgctgctc ttccggctccg acatgaaga tggaccttct aataatgcga 120
 33 gctgttcccg aaggctgacc gagtgttcc tgagccccaa agctaattgt atagatata 180
 35 aagtcatcca cagagatgtt acagttgaag agatgggggt agagaagact ttgaaggaaa 240
 37 agaatgtaga atgaggatag aagagaggaa atcccaacat ttaacaggtt tgacagatga 300
 39 aaaagtgaag gcataatctt ctcttcaccc ccaggttatta gatgaatttg tatctgaaag 360
 41 tggtagtgca gagacagtag agaaatggct gaagaggaag aacaacaaat cagaagatga 420
 43 atcagctcct aaggaagtca gcaggttacca agatacgaat atgcaggagg ttgtatatga 480
 45 actaaacagc tatataagaac aacgggttggc cacaggagga gacaaccagc tactcctcta 540
 47 tgaactgagc agcatcatta aaatagccac aaaagccgat ggatttgcac tgtatccct 600
 49 tggagagtgc aataatagcc tggatattt caccgcaccc gggataaaagg aaggaaaaacc 660
 51 ccgcctcattc cctgctggc ccatcactca gggcaccacc gtctctgcatt atgtggccaa 720
 53 gtccaggaaa acactgctag tagaagacat cttggagat gaacgatttc caagaggtac 780
 55 tggactggaa tcaggactc gtatccagtc tggatccattc ttaccaattt tcactgcaat 840
 57 tggtagttt attggatattc tcgagctgtt tcggacttgg ggcacaaagg ctttgcatt 900
 59 tagtcaccag gaggttgcac cagcaaatct tgcctggct tcagtagcaa tacatcaggt 960
 61 gcaggatgc agaggcattt ccaaacagac agaattgaat gacttcctac tcgacgtatc 1020
 63 aaaaacatat tttgataaca tagttgcaat agattctcta cttgaacaca taatgatata 1080
 65 tgcacaaaaac ctggtaatgc cgcgttgc tgcgttttc cagggtggacc ataagaacaa 1140
 67 ggagttatatt tcagacccctt ttgtatattgg agagggaaaag gaagggaaaac ctgtcttcaa 1200
 69 gaagacccaa gagataagat ttcaatttgc gaaaggaatt gctggccaa tagcaagaac 1260
 71 aggggaagtc ctgaacattc cagatgccta tgcagaccca cgctttaaca gagaagttaga 1320
 73 cttgtacaca ggctacacca cgcggacat cctgtgcatt cccatcgtca gccgaggcag 1380

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/531,965

DATE: 04/27/2005
TIME: 14:36:39

Input Set : A:\LeA 36 374.ST25.txt
Output Set: N:\CRF4\04272005\J531965.raw

75	cgttagatgt	gtggcgcaga	tggcaacaa	aatcagtggc	agtgccttct	ctaaaacaga	1440
77	tgaaaacaac	ttcaaaaatgt	ttgcgtctt	ttgtgttta	gccttacact	gtgctaataat	1500
79	gtatcataga	attcgccact	cagagtgcatt	ttaccggta	acgatggaaa	agctgtccta	1560
81	ccatagcatt	tgtacttcag	aagagtggca	aggctcatg	caattcaccc	ttcccggtcg	1620
83	tctctgaaa	gaaattgaat	tattccactt	tgacatttgt	cctttgaaa	acatgtggcc	1680
85	tggaaatttt	gtctacatgg	ttcatcggtc	ctgtggaca	tcctgtttt	agcttgaaaa	1740
87	gttgtgtcg	tttattatgt	ctgtgaagaa	gaactatcg	cggttcctt	atcacaactg	1800
89	gaagcatcg	gtcaactgtag	cacactgcat	gtatgccata	cttcagaaca	atcacacgct	1860
91	tttcacagac	cttgagcgca	aaggactgt	gattgcgtgt	ctgtgtcatg	acctggacca	1920
93	caggggcttc	agtaacagct	acctgcagaa	gttcgaccac	cctctggccg	ctctctactc	1980
95	cacttccacc	atggagcagc	accacttctc	ccagactgtg	tccatcctt	agttggagg	2040
97	gcacaatatac	ttctccactc	ttagctccag	tgaatatgag	caggtgttt	agatcatccg	2100
99	caaagccatc	attgcccacag	accttgctt	atactttgga	aacaggaagc	agttggaaaga	2160
101	gatgtaccag	accggatcac	taaaccttaa	taatcaatca	catagagacc	gtgttaattgg	2220
103	tttgcgtatgt	actgcgtgt	acctttgtt	tgtgacaaaa	ctgtggcccg	ttacaaaatt	2280
105	gacggcaaat	gatatatatg	cagaattctg	ggctgagggt	gatgaaatga	agaaatttggg	2340
107	aatacagcct	attcctatga	tggacagaga	caagaaggat	gaagtcccc	aaggccagct	2400
109	tgggttctac	aatgcgttg	ccattccctg	ctatacacc	cttacccaga	tcctccctcc	2460
111	cacggagcct	cttctgaaag	catgcaggga	taatctcagt	cagtggaga	aggtgattcg	2520
113	aggggaggag	actgcaacct	ggatttcatc	cccatccgtg	gctcagaagg	cagctgcac	2580
115	tgaagattga	gcactggta	ccctgacacg	ctgtcccacc	tacagatct	catcttgctt	2640
117	cttgacatt	ctttcctt	tttgggggg	ggtggggga	acctgcac	gttaactgg	2700
119	gtgcaaacct	cttcaagaag	gtaacatcaa	ataaataagt	caagcagagg	acttcctgcc	2760
121	aatctttct	gtgaggcatt	atagacactg	agcaaccagg	accacccca	cgttcagaaa	2820
123	tcagctggcc	aagtgactcc	atttgactt	caaaccagcc	ttttctaata	ggctaataatt	2880
125	gctgaggcct	taaaggaaat	ggacaaaaat	tatccagaag	gggtacttt	ccattgtatc	2940
127	tttctaataa	gggtttaaaa	ttgtactatt	atggtattgt	acttgggtt	taacatcaat	3000
129	gttgcttga	tgttgttga	tataaatagg	aattttacac	attactatt	tgaatggtga	3060
131	atgttcatgt	atgacactact	tgtatatac	ttgagttgt	gtccacagcc	tcaggacaaa	3120
133	tgtcggtgag	gttacagagt	aagaaatgt	ggcaaaacgt	caaacttta	tttcagagct	3180
135	tcatgaattt	agttagacta	aacataattc	tttaagttca	acctaaaggg	ctgagatcaa	3240
137	taaatttaac	actagacgaa	gtagacttcc	tgtctttt	agaagagatg	aggtatatgt	3300
139	tacaataaaat	ctcagaactt	caagtagcag	ttcaaaagat	gtcagtttt	aaaattgttt	3360
141	ttgttgttgt	cttggcagtt	ttactgaacc	cttgcataa	agaacaaaat	aaaagctcg	3420
143	cattgttaatt	tttttaatgg	acaagtctt	tggatacgag	gggtacattt	ttcataatga	3480
145	ttcccttata	tttctactt	gtgtcatatg	cagaatttt	gactctcatt	cacaatgaaa	3540
147	agtttatttt	aaacattgtt	taattaaaat	accatacagt	tctctttaa	acatcaaacc	3600
149	ataaaaaagt	tatTTTgtaa	ttttactctg	acctgccc	gtcacctctc	acttatctct	3660
151	tccacgtact	gcacggcgt	atttcatgag	ctttctgtcc	atagcacaga	aacagagcag	3720
153	aaagtagtac	aatcatgtt	gacttcttt	ctgttctt	tactttctc	acagatcaga	3780
155	tcactccata	gaaggctgt	ggtttcgat	gtttttctt	tacaccttt	tgggtgacca	3840
157	gtattactat	acaatgtaa	tgttttaaaa	aatacggaa	taatactctg	cacccttcc	3900
159	tacaagatg	ataaagcagt	cacttctggc	gcatttt	aatttaaaga	tttttagtgc	3960
161	aatggcacgg	taacctccaa	acctgaatta	gacagagact	cactcagaa	gtgacaggcc	4020
163	catcatatca	aataacttat	tcactttca	tgtggcagga	aactggaaata	tcgcctttaa	4080
165	taaaatggaa	aaatatgtct	ctacatattt	accaccatag	gcgtttgtt	cataatgagcc	4140
167	tggttgtgc	aaaattaaat	cagaggctt	tacaacatgg	tttattttat	ttgttagcaaa	4200
169	gttggctcta	cataaacatt	gttcttattt	taaaattaac	actatgtgtt	cagttttctt	4260
171	qtqqqcttct	qaaagtgc	atttccctc	cgtggagctc	catttgctat	tttcattata	4320

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/531,965

DATE: 04/27/2005
TIME: 14:36:39

Input Set : A:\LeA 36 374.ST25.txt
Output Set: N:\CRF4\04272005\J531965.raw

173	cactatgagg	taaaatgtaa	taacaaaaga	gagagaagta	ccactgtggc	tagatatata	4380
175	cacacacata	tatatatgga	tggatgtaat	atatgttagca	cacacacata	gatgttatata	4440
177	ggatacacac	tcatgtatgt	aaacgtatac	atatgtgtat	atatgataca	tacacataca	4500
179	cacacacgag	agacagaagg	aaagagaggaa	agagagaagc	aaacatgtag	gaaaaaatat	4560
181	aaatcagccg	gaattc					4576
184	<210>	SEQ ID NO:	2				
185	<211>	LENGTH:	779				
186	<212>	TYPE:	PRT				
187	<213>	ORGANISM:	Homo sapiens				
189	<400>	SEQUENCE:	2				
191	Met Arg Ile Glu Glu Arg Lys Ser Gln His Leu Thr Gly Leu Thr Asp						
192	1	5	10	15			
195	Glu Lys Val Lys Ala Tyr Leu Ser Leu His Pro Gln Val Leu Asp Glu						
196	20	25	30				
199	Phe Val Ser Glu Ser Val Ser Ala Glu Thr Val Glu Lys Trp Leu Lys						
200	35	40	45				
203	Arg Lys Asn Asn Lys Ser Glu Asp Glu Ser Ala Pro Lys Glu Val Ser						
204	50	55	60				
207	Arg Tyr Gln Asp Thr Asn Met Gln Gly Val Val Tyr Glu Leu Asn Ser						
208	65	70	75	80			
211	Tyr Ile Glu Gln Arg Leu Asp Thr Gly Gly Asp Asn Gln Leu Leu Leu						
212	85	90	95				
215	Tyr Glu Leu Ser Ser Ile Ile Lys Ile Ala Thr Lys Ala Asp Gly Phe						
216	100	105	110				
219	Ala Leu Tyr Phe Leu Gly Glu Cys Asn Asn Ser Leu Cys Ile Phe Thr						
220	115	120	125				
223	Pro Pro Gly Ile Lys Glu Gly Lys Pro Arg Leu Ile Pro Ala Gly Pro						
224	130	135	140				
227	Ile Thr Gln Gly Thr Thr Val Ser Ala Tyr Val Ala Lys Ser Arg Lys						
228	145	150	155	160			
231	Thr Leu Leu Val Glu Asp Ile Leu Gly Asp Glu Arg Phe Pro Arg Gly						
232	165	170	175				
235	Thr Gly Leu Glu Ser Gly Thr Arg Ile Gln Ser Val Leu Cys Leu Pro						
236	180	185	190				
239	Ile Val Thr Ala Ile Gly Asp Leu Ile Gly Ile Leu Glu Leu Tyr Arg						
240	195	200	205				
243	His Trp Gly Lys Glu Ala Phe Cys Leu Ser His Gln Glu Val Ala Thr						
244	210	215	220				
247	Ala Asn Leu Ala Trp Ala Ser Val Ala Ile His Gln Val Gln Val Cys						
248	225	230	235	240			
251	Arg Gly Leu Ala Lys Gln Thr Glu Leu Asn Asp Phe Leu Leu Asp Val						
252	245	250	255				
255	Ser Lys Thr Tyr Phe Asp Asn Ile Val Ala Ile Asp Ser Leu Leu Glu						
256	260	265	270				
259	His Ile Met Ile Tyr Ala Lys Asn Leu Val Asn Ala Asp Arg Cys Ala						
260	275	280	285				
263	Leu Phe Gln Val Asp His Lys Asn Lys Glu Leu Tyr Ser Asp Leu Phe						
264	290	295	300				
267	Asp Ile Gly Glu Lys Glu Gly Lys Pro Val Phe Lys Lys Thr Lys						

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/531,965

DATE: 04/27/2005
TIME: 14:36:39

Input Set : A:\LeA 36 374.ST25.txt
Output Set: N:\CRF4\04272005\J531965.raw

268	305	310	315	320
271	Glu Ile Arg Phe Ser Ile Glu Lys Gly Ile Ala Gly Gln Val Ala Arg			
272	325	330	335	
275	Thr Gly Glu Val Leu Asn Ile Pro Asp Ala Tyr Ala Asp Pro Arg Phe			
276	340	345	350	
279	Asn Arg Glu Val Asp Leu Tyr Thr Gly Tyr Thr Thr Arg Asn Ile Leu			
280	355	360	365	
283	Cys Met Pro Ile Val Ser Arg Gly Ser Val Ile Gly Val Val Gln Met			
284	370	375	380	
287	Val Asn Lys Ile Ser Gly Ser Ala Phe Ser Lys Thr Asp Glu Asn Asn			
288	385	390	395	400
291	Phe Lys Met Phe Ala Val Phe Cys Ala Leu Ala Leu His Cys Ala Asn			
292	405	410	415	
295	Met Tyr His Arg Ile Arg His Ser Glu Cys Ile Tyr Arg Val Thr Met			
296	420	425	430	
299	Glu Lys Leu Ser Tyr His Ser Ile Cys Thr Ser Glu Glu Trp Gln Gly			
300	435	440	445	
303	Leu Met Gln Phe Thr Leu Pro Val Arg Leu Cys Lys Glu Ile Glu Leu			
304	450	455	460	
307	Phe His Phe Asp Ile Gly Pro Phe Glu Asn Met Trp Pro Gly Ile Phe			
308	465	470	475	480
311	Val Tyr Met Val His Arg Ser Cys Gly Thr Ser Cys Phe Glu Leu Glu			
312	485	490	495	
315	Lys Leu Cys Arg Phe Ile Met Ser Val Lys Lys Asn Tyr Arg Arg Val			
316	500	505	510	
319	Pro Tyr His Asn Trp Lys His Ala Val Thr Val Ala His Cys Met Tyr			
320	515	520	525	
323	Ala Ile Leu Gln Asn Asn His Thr Leu Phe Thr Asp Leu Glu Arg Lys			
324	530	535	540	
327	Gly Leu Leu Ile Ala Cys Leu Cys His Asp Leu Asp His Arg Gly Phe			
328	545	550	555	560
331	Ser Asn Ser Tyr Leu Gln Lys Phe Asp His Pro Leu Ala Ala Leu Tyr			
332	565	570	575	
335	Ser Thr Ser Thr Met Glu Gln His His Phe Ser Gln Thr Val Ser Ile			
336	580	585	590	
339	Leu Gln Leu Glu Gly His Asn Ile Phe Ser Thr Leu Ser Ser Ser Glu			
340	595	600	605	
343	Tyr Glu Gln Val Leu Glu Ile Ile Arg Lys Ala Ile Ile Ala Thr Asp			
344	610	615	620	
347	Leu Ala Leu Tyr Phe Gly Asn Arg Lys Gln Leu Glu Glu Met Tyr Gln			
348	625	630	635	640
351	Thr Gly Ser Leu Asn Leu Asn Asn Gln Ser His Arg Asp Arg Val Ile			
352	645	650	655	
355	Gly Leu Met Met Thr Ala Cys Asp Leu Cys Ser Val Thr Lys Leu Trp			
356	660	665	670	
359	Pro Val Thr Lys Leu Thr Ala Asn Asp Ile Tyr Ala Glu Phe Trp Ala			
360	675	680	685	
363	Glu Gly Asp Glu Met Lys Lys Leu Gly Ile Gln Pro Ile Pro Met Met			
364	690	695	700	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/531,965

DATE: 04/27/2005
TIME: 14:36:39

Input Set : A:\LeA 36 374.ST25.txt
Output Set: N:\CRF4\04272005\J531965.raw

367 Asp Arg Asp Lys Lys Asp Glu Val Pro Gln Gly Gln Leu Gly Phe Tyr
368 705 710 715 720
371 Asn Ala Val Ala Ile Pro Cys Tyr Thr Thr Leu Thr Gln Ile Leu Pro
372 725 730 735
375 Pro Thr Glu Pro Leu Leu Lys Ala Cys Arg Asp Asn Leu Ser Gln Trp
376 740 745 750
379 Glu Lys Val Ile Arg Gly Glu Glu Thr Ala Thr Trp Ile Ser Ser Pro
380 755 760 765
383 Ser Val Ala Gln Lys Ala Ala Ala Ser Glu Asp
384 770 775
387 <210> SEQ ID NO: 3
388 <211> LENGTH: 22
389 <212> TYPE: DNA
390 <213> ORGANISM: Homo sapiens
392 <400> SEQUENCE: 3
393 ttttcaagct caaaggcggta tg 22
396 <210> SEQ ID NO: 4
397 <211> LENGTH: 22
398 <212> TYPE: DNA
399 <213> ORGANISM: Homo sapiens
401 <400> SEQUENCE: 4
402 acatgtggcc tggaattttt gt 22
405 <210> SEQ ID NO: 5
406 <211> LENGTH: 22
407 <212> TYPE: DNA
408 <213> ORGANISM: Homo sapiens
410 <400> SEQUENCE: 5
411 cccacaggac cgatgaacca tg 22

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/531,965

DATE: 04/27/2005
TIME: 14:36:40

Input Set : A:\LeA 36 374.ST25.txt
Output Set: N:\CRF4\04272005\J531965.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date